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Amendments to the Claims

This listing of claims replaces all prior versions and listings of claims in the application.

Listing of Claims

Claims 1-21 (canceled).

22 (currently amended). Apparatus according to Claim ~~19~~ 47, wherein each of said intermediate toothed wheels engages two of said pinions.

Claim 23 (canceled).

24 (currently amended). Apparatus according to Claim ~~18~~ 46, wherein said scoop channel comprises:

a housing;

a sleeve rotatably mounted within said housing, said sleeve defining an axial aperture coaxially aligned with said first end of said scoop channel, said axial aperture adapted to receive and pass said gobs therethrough; and

said pinion comprises an externally-toothed ring surrounding said sleeve and attached thereto, said sleeve being attached to and rotating with said first end of said scoop channel.

25 (currently amended). Apparatus according to Claim ~~19~~ 47, wherein each of said scoop channels comprises:

a housing;

a sleeve rotatably mounted within said housing, said sleeve defining an axial aperture coaxially aligned with said first end of said scoop channel, said axial aperture adapted to receive and pass said gobs therethrough; and

said pinion on each said scoop channel comprises an externally-toothed ring surrounding said sleeve and attached thereto, said sleeve being attached to and rotating with said first end of said scoop channel.

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26 (currently amended). Apparatus according to Claim 20  
48, wherein each of said scoop channels comprises:

a housing;

a sleeve rotatably mounted within said housing, said sleeve defining an axial aperture coaxially aligned with said first end of said scoop channel, said axial aperture adapted to receive and pass said gobs therethrough; and

said pinion on each said scoop channel comprises an externally-toothed ring surrounding said sleeve and attached thereto, said sleeve being attached to and rotating with said first end of said scoop channel.

27 (currently amended). Apparatus according to Claim 21  
49, wherein each of said scoop channels comprises:

a housing;

a sleeve rotatably mounted within said housing, said sleeve defining an axial aperture coaxially aligned with said first end of said scoop channel, said axial aperture adapted to receive and pass said gobs therethrough; and

said pinion on each said scoop channel comprises an externally-toothed ring surrounding said sleeve and attached thereto, said sleeve being attached to and rotating with said first end of said scoop channel.

28 (currently amended). Apparatus according to Claim 23  
50, further comprising:

an outer sleeve mounted on said housing; and

a connection sleeve rotatably mounted coaxially within said outer sleeve, said connection sleeve extending between and coaxially aligned with said sleeve and said first end of said scoop channel, said scoop channel comprising a side wall having first and second cooling ducts extending therethrough, said connection sleeve having first and second annular ducts sealed with respect to one another, said first annular duct being in fluid communication with said first

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cooling duct and a cooling medium supply line in said outer sleeve, said second annular duct being in fluid communication with said second cooling duct and a cooling medium return line in said outer sleeve.

29 (currently amended). Apparatus according to Claim ~~23~~ 50, further comprising:

an outer sleeve mounted on said housing; and  
a connection sleeve rotatably mounted coaxially within said outer sleeve, said connection sleeve extending between and coaxially aligned with said sleeve and said first end of said scoop channel, said scoop channel comprising a side wall having a cooling duct extending therethrough and open to the atmosphere, said connection sleeve having an annular duct in fluid communication with said cooling duct and a cooling gas supply line in said outer sleeve.

Claims 30-34 (canceled).

35 (currently amended). Apparatus according to Claim ~~30~~ 46, wherein said means for fixing said relative rotational position comprises an eccentric bolt having a first portion with a circular cross section rotatably mounted within an axially extending first bore positioned in said first partial toothed wheel eccentrically to said axis of rotation, said first bore having a shape complementary to said circular cross section, said eccentric bolt further having a second portion having a non-round cross section positioned within an axially extending second bore eccentrically positioned in said second partial toothed wheel, rotation of said bolt relatively to said partial toothed wheels fixing said relative rotational position of said partial toothed wheels to one another about said axis of rotation.

36 (currently amended). Apparatus according to Claim ~~30~~ 46, wherein said first and second partial toothed wheels are

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engaged with both said toothed wheel and with at least one of said pinions.

37 (currently amended). Apparatus according to Claim ~~31~~ 47, wherein said first and second partial toothed wheels are engaged with both said toothed wheel and with at least one of said pinions.

38 (currently amended). Apparatus according to Claim ~~47~~ 46, further comprising a coupling connecting said electrical motor to said screw.

39 (currently amended). Apparatus according to Claim ~~48~~ 47, further comprising a coupling connecting said electrical motor to said screw.

40 (currently amended). Apparatus according to Claim ~~49~~ 48, further comprising a coupling connecting said electrical motor to said screw.

41 (currently amended). Apparatus according to Claim ~~47~~ 46, further comprising a means for pivotally mounting said apparatus on said glass forming machine for reciprocally pivoting said apparatus about a vertical axis.

42 (currently amended). Apparatus according to Claim ~~48~~ 47, further comprising a means for pivotally mounting said apparatus on said glass forming machine for reciprocally pivoting said apparatus about a vertical axis.

43 (currently amended). Apparatus according to Claim ~~49~~ 48, further comprising a means for pivotally mounting said apparatus on said glass forming machine for reciprocally pivoting said apparatus about a vertical axis.

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44 (previously presented). Apparatus according to Claim 41, further comprising a piston and cylinder for effecting pivoting movement of said apparatus relatively to said glass forming machine, said cylinder being attached in a pivotable manner to said glass forming machine, said apparatus comprising a lever to which said piston is pivotably attached.

45 (previously presented). Apparatus according to Claim 44, further comprising a positioning body mounted on said lever in spaced apart relation to a longitudinal axis thereof, said positioning body cooperating with a positioning stop mounted on said glass forming machine for positioning said lever in a normal position in both a horizontal and vertical direction.

46 (new). An apparatus for distributing gobs of molten glass from a gob feeder in a predetermined sequence through stationary channels onto molds of a plurality of sections of a glass forming machine, said apparatus comprising:

- at least one scoop channel having a first end adapted to receive said gobs from said feeder and a second end alignable with one of said stationary channels, said scoop channel being rotatable about an axis for aligning said second end of said scoop channel with said stationary channels;

- a pinion attached to said scoop channel proximate to said first end thereof, said pinion being fixed to and rotatable with said scoop channel about said axis;

- an electrical motor for rotating said pinion and thereby rotating said scoop channel about said axis;

- a gear train transmitting torque from said motor to said pinion, said gear train including a screw engaged with said motor, said motor being adapted to rotate said screw in a reciprocating manner, a worm wheel engaged with said screw and rotatable in response to rotation of said screw, a toothed wheel mounted coaxially with said worm wheel and fixed thereto so as to rotate with said worm wheel, said toothed wheel

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driving said pinion for effecting rotation of said scoop channel upon rotation of said screw by said motor;

an intermediate toothed wheel engaging both said pinion and said toothed wheel, said intermediate toothed wheel transmitting torque from said toothed wheel to said pinion for effecting rotation of said scoop channel upon rotation of said screw by said motor; and

said intermediate toothed wheel comprising first and second partial toothed wheels positioned in overlying relation coaxially aligned with one another, said first and second partial toothed wheels being rotationally adjustable with respect to each other about an axis of rotation in order to minimize clearance between themselves and the pinion and the toothed wheel at the periphery thereof, means being provided for fixing a relative rotational position of said first partial toothed wheel to said second partial toothed wheel.

47 (new). An apparatus for distributing gobs of molten glass from a gob feeder in a predetermined sequence through stationary channels onto molds of a plurality of sections of a glass forming machine, said apparatus comprising:

at least one scoop channel having a first end adapted to receive said gobs from said feeder and a second end alignable with one of said stationary channels, said scoop channel being rotatable about an axis for aligning said second end of said scoop channel with said stationary channels;

a pinion attached to said scoop channel proximate to said first end thereof, said pinion being fixed to and rotatable with said scoop channel about said axis;

an electrical motor for rotating said pinion and thereby rotating said scoop channel about said axis;

a gear train transmitting torque from said motor to said pinion, said gear train including a screw engaged with said motor, said motor being adapted to rotate said screw in a reciprocating manner, a worm wheel engaged with said screw and rotatable in response to rotation of said screw, a toothed

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wheel mounted coaxially with said worm wheel and fixed thereto so as to rotate with said worm wheel, said toothed wheel driving said pinion for effecting rotation of said scoop channel upon rotation of said screw by said motor;

first and second intermediate toothed wheels, each engaging said toothed wheel, said first intermediate toothed wheel engaging a first one of said pinions, said second intermediate toothed wheel engaging a second one of said pinions, said first and second pinions being attached, respectively, to first and second ones of said scoop channels, said first and second intermediate toothed wheels transmitting torque from said toothed wheel to said first and second pinions for effecting rotation of said first and second scoop channels upon rotation of said screw by said motor; and

said intermediate toothed wheels comprising first and second partial toothed wheels positioned in overlying relation coaxially aligned with one another, said first and second partial toothed wheels being rotationally adjustable with respect to each other about an axis of rotation in order to minimize clearance between themselves and the pinions and the toothed wheel at the periphery thereof, means being provided for fixing a relative rotational position of said first partial toothed wheel to said second partial toothed wheel for each of said intermediate toothed wheels.

48 (new). An apparatus for distributing gobs of molten glass from a gob feeder in a predetermined sequence through stationary channels onto molds of a plurality of sections of a glass forming machine, said apparatus comprising:

at least one scoop channel having a first end adapted to receive said gobs from said feeder and a second end alignable with one of said stationary channels, said scoop channel being rotatable about an axis for aligning said second end of said scoop channel with said stationary channels;

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a pinion attached to said scoop channel proximate to said first end thereof, said pinion being fixed to and rotatable with said scoop channel about said axis;

an electrical motor for rotating said pinion and thereby rotating said scoop channel about said axis;

a gear train transmitting torque from said motor to said pinion, said gear train including a screw engaged with said motor, said motor being adapted to rotate said screw in a reciprocating manner, a worm wheel engaged with said screw and rotatable in response to rotation of said screw, a toothed wheel mounted coaxially with said worm wheel and fixed thereto so as to rotate with said worm wheel, said toothed wheel driving said pinion for effecting rotation of said scoop channel upon rotation of said screw by said motor;

first and second intermediate toothed wheels, each engaging said toothed wheel, said first intermediate toothed wheel engaging a first one of said pinions, said second intermediate toothed wheel engaging a second one of said pinions, said first and second pinions being attached, respectively, to first and second ones of said scoop channels, said first and second intermediate toothed wheels transmitting torque from said toothed wheel to said first and second pinions for effecting rotation of said first and second scoop channels upon rotation of said screw by said motor;

said first and second intermediate toothed wheels each engaging only one of said pinions; and

each of said intermediate toothed wheels comprising first and second partial toothed wheels positioned in overlying relation coaxially aligned with one another, said first and second partial toothed wheels being rotationally adjustable about an axis of rotation with respect to each other in order to minimize clearance between themselves and the pinions and the toothed wheel at the periphery thereof, means being provided for fixing a relative rotational position of said first partial toothed wheel to said second partial toothed wheel for each of said intermediate toothed wheels.



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49 (new). An apparatus for distributing gobs of molten glass from a gob feeder in a predetermined sequence through stationary channels onto molds of a plurality of sections of a glass forming machine, said apparatus comprising:

at least one scoop channel having a first end adapted to receive said gobs from said feeder and a second end alignable with one of said stationary channels, said scoop channel being rotatable about an axis for aligning said second end of said scoop channel with said stationary channels;

a pinion attached to said scoop channel proximate to said first end thereof, said pinion being fixed to and rotatable with said scoop channel about said axis;

an electrical motor for rotating said pinion and thereby rotating said scoop channel about said axis;

a gear train transmitting torque from said motor to said pinion, said gear train including screw engaged with said motor, said motor being adapted to rotate said screw in a reciprocating manner, a worm wheel engaged with said screw and rotatable in response to rotation of said screw, a toothed wheel mounted coaxially with said worm wheel and fixed thereto so as to rotate with said worm wheel, said toothed wheel driving said pinion for effecting rotation of said scoop channel upon rotation of said screw by said motor;

first and second intermediate toothed wheels, each engaging said toothed wheel, said first intermediate toothed wheel engaging a first one of said pinions, said second intermediate toothed wheel engaging a second one of said pinions, said first and second pinions being attached, respectively, to first and second ones of said scoop channels, said first and second intermediate toothed wheels transmitting torque from said toothed wheel to said first and second pinions for effecting rotation of said first and second scoop channels upon rotation of said screw by said motor;

said second intermediate toothed wheel engaging a third one of said pinions, said third pinion being attached to

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a third one of said scoop channels, said second intermediate toothed wheel transmitting torque from said toothed wheel to said third pinion for effecting rotation of said third scoop channel upon rotation of said screw by said motor; and

each of said intermediate toothed wheels comprising first and second partial toothed wheels positioned in overlying relation coaxially aligned with one another, said first and second partial toothed wheels being rotationally adjustable about an axis of rotation with respect to each other in order to minimize clearance between themselves and the pinions and the toothed wheel at the periphery thereof, means being provided for fixing a relative rotational position of said first partial toothed wheel to said second partial toothed wheel for each of said intermediate toothed wheels.

50 (new). An apparatus for distributing gobs of molten glass from a gob feeder in a predetermined sequence through stationary channels onto molds of a plurality of sections of a glass forming machine, said apparatus comprising:

at least one scoop channel having a first end adapted to receive said gobs from said feeder and a second end alignable with one of said stationary channels, said scoop channel being rotatable about an axis for aligning said second end of said scoop channel with said stationary channels, said scoop channel comprising a housing and a sleeve rotatably mounted within said housing, said sleeve defining an axial aperture coaxially aligned with said first end of said scoop channel, said axial aperture adapted to receive and pass said gobs therethrough;

a pinion attached to said scoop channel proximate to said first end thereof, said pinion being fixed to and rotatable with said scoop channel about said axis, said pinion comprising an externally-toothed ring surrounding said sleeve and attached thereto, said sleeve being attached to and rotating with said first end of said scoop channel;

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an electrical motor for rotating said pinion and thereby rotating said scoop channel about said axis;

a gear train transmitting torque from said motor to said pinion, said gear train including a screw engaged with said motor, said motor being adapted to rotate said screw in a reciprocating manner, a worm wheel engaged with said screw and rotatable in response to rotation of said screw, a toothed wheel mounted coaxially with said worm wheel and fixed thereto so as to rotate with said worm wheel, said toothed wheel driving said pinion for effecting rotation of said scoop channel upon rotation of said screw by said motor;

an intermediate toothed wheel engaging both said pinion and said toothed wheel, said intermediate toothed wheel transmitting torque from said toothed wheel to said pinion for effecting rotation of said scoop channel upon rotation of said screw by said motor; and

said intermediate toothed wheel comprising first and second partial toothed wheels positioned in overlying relation coaxially aligned with one another, said first and second partial toothed wheels being rotationally adjustable about an axis of rotation with respect to each other in order to minimize clearance between themselves and the pinion and the toothed wheel at the periphery thereof, means being provided for fixing a relative rotational position of said first partial toothed wheel to said second partial toothed wheel.